Murata Components Library for Agilent ADS2011 Installation Manual

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1. Introduction

This manual is for users of the design kit (the "library") that provides the parameters of Murata Manufacturing Co., Ltd. ("Murata") products for Agilent's ADS2011. It describes the operations from library installation to using the library in the ADS2011 schematic window.

* You can perform the required operations by following the procedures in this manual, but please understand that some of the details may differ from the manual depending on your computer environment.
* The descriptions in this manual are based on the following operating environment. See the related manuals for the devices and software used in your environment.

Operating Environment

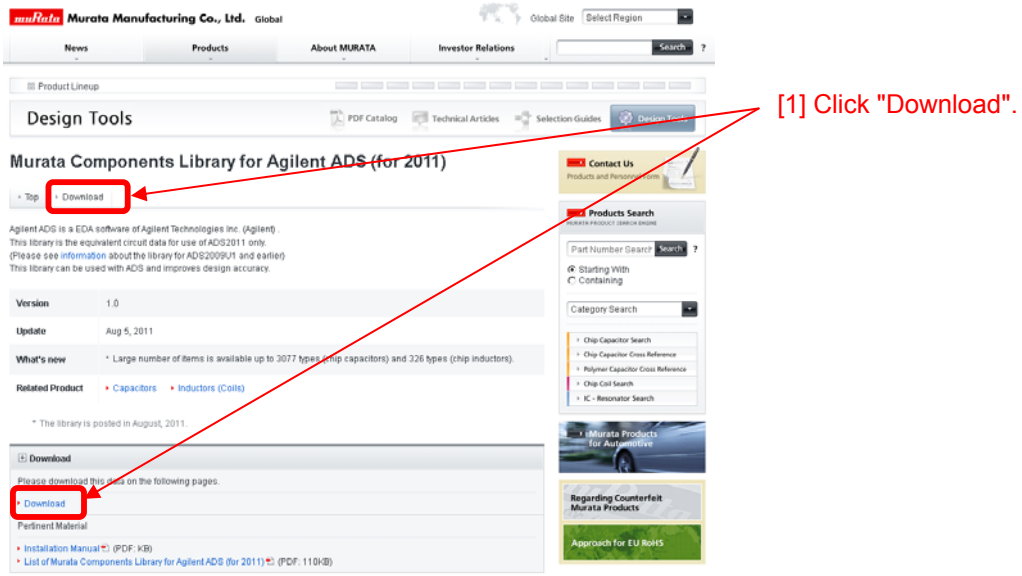
OS : Windows 7 / XP * Administrator rights are required to install the library.

Version : ADS2011.05 * Does not operate on versions earlier than ADS2011 (2009U1 or earlier).

2. Downloading the Library

[1] To download the library, open Murata's website from the following URL and click "Download".

◎URL：http://www.murata.com/ads2011/



[2] In the download page opened in [1], click the "Accept and download" bar and download the library (murata_library_ads2011_**e.zip) to your desired folder (example: C:¥temp).

* Do not use Japanese in the path of the download destination or the folder name. Otherwise, the library may not operate.

3. Installing the Library

The procedures for installing in a newly created workspace and an existing workspace are described below. In both cases, the basic flow is:

1) Unzip the downloaded ZIP format library.
2) Place the folder created after unzipping in your desired folder.
3) Specify the "lib.defs" file in the library.

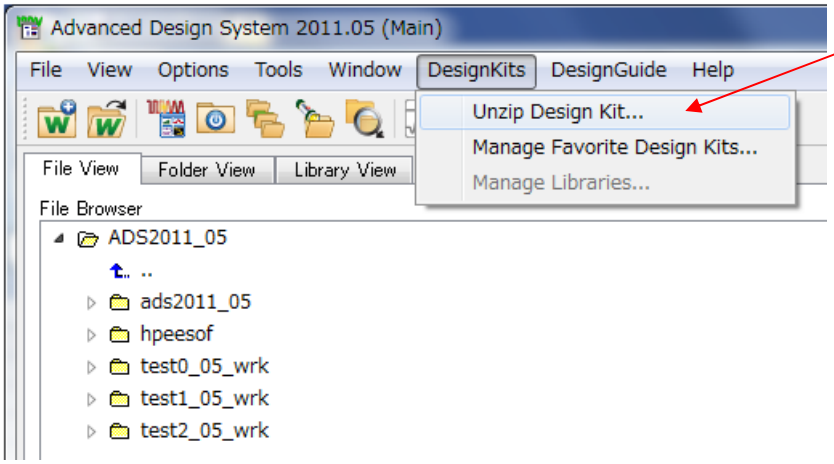
Although this is the basic flow, when starting installation from "Unzip Design Kit..." described below, 3) can be omitted.

[Procedures for Installing in a Newly Created Workspace]

The procedure for installing before creating the workspace and the procedure for installing after creating the workspace are described below.

(1) Procedure for installing before creating the workspace

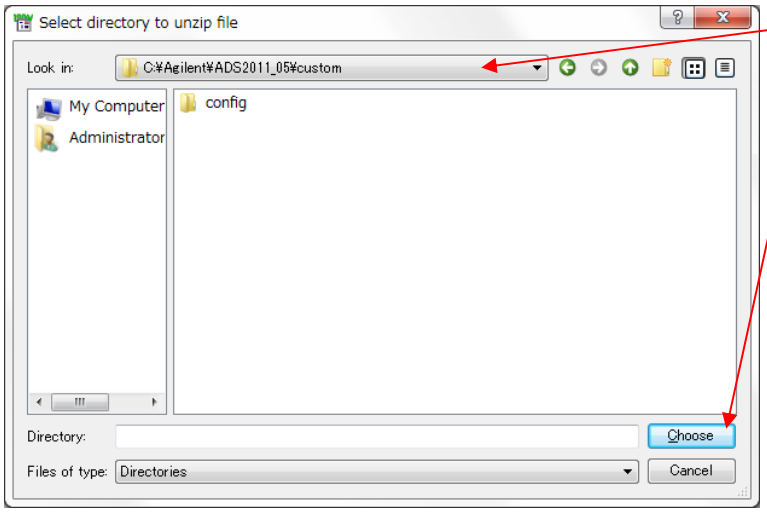
[1] Select “DesignKits” → “Unzip Design Kit…” in the main window.



[1] Select “Unzip Design Kit…”.

[2] Select the folder containing the downloaded library, and then select the library.

[3] Select your desired folder for the unzipped library (example: C:¥Agilent¥ADS2011_05¥custom) and click “Choose”.

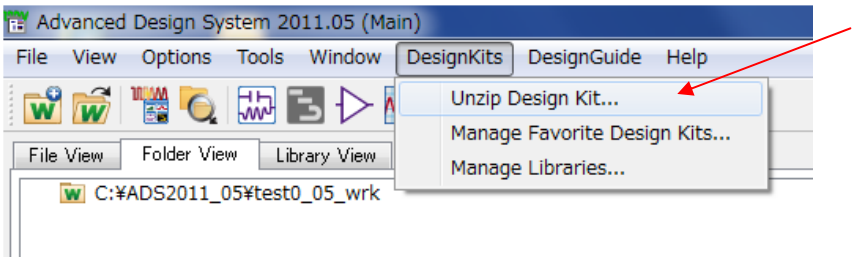


[3] Select your desired folder and click “Choose”.

[4] Check that the “muRataLibWeb_e” folder has been created in the folder containing the unzipped library.

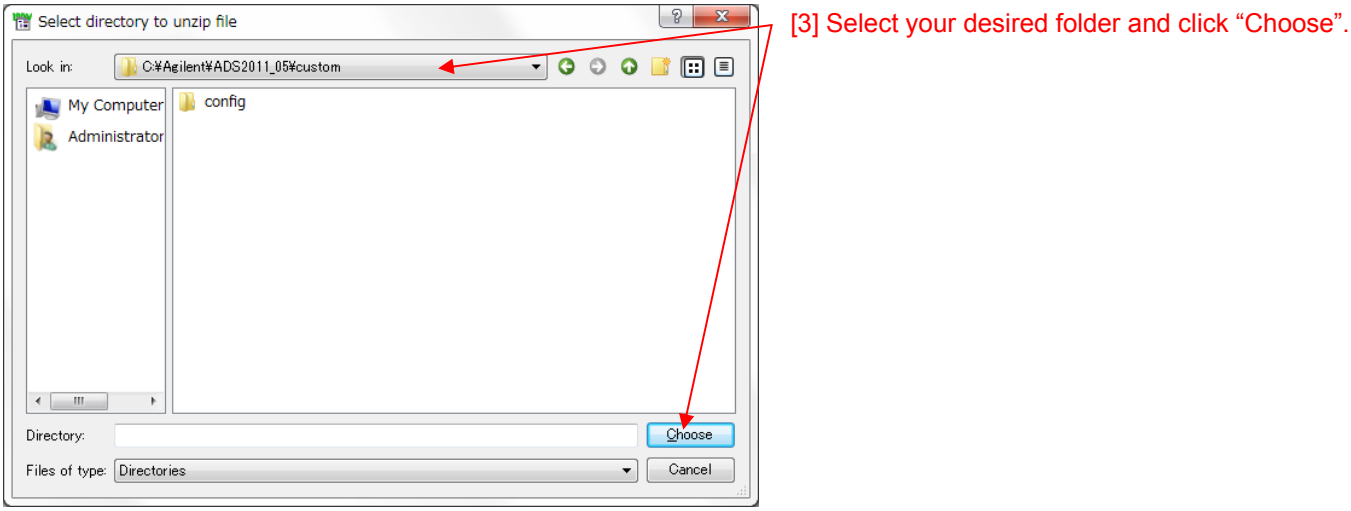
This completes the installation.

(2) Procedure for installing after creating the workspace
[1] Select “DesignKits” → “Unzip Design Kit…” in the main window.

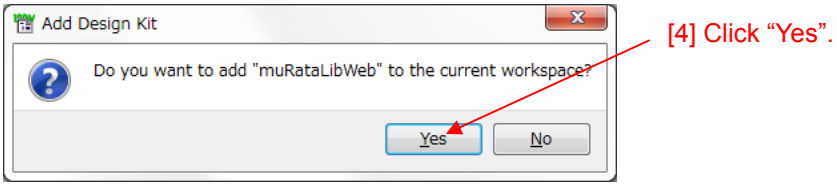


[2] Select the folder containing the downloaded library, and then select the library.

[3] Select your desired folder for the unzipped library (example: C:¥Agilent¥ADS2011_05¥custom) and click “Choose”.



[4] The “Add Design Kit” window appears. Click “Yes” in this window.

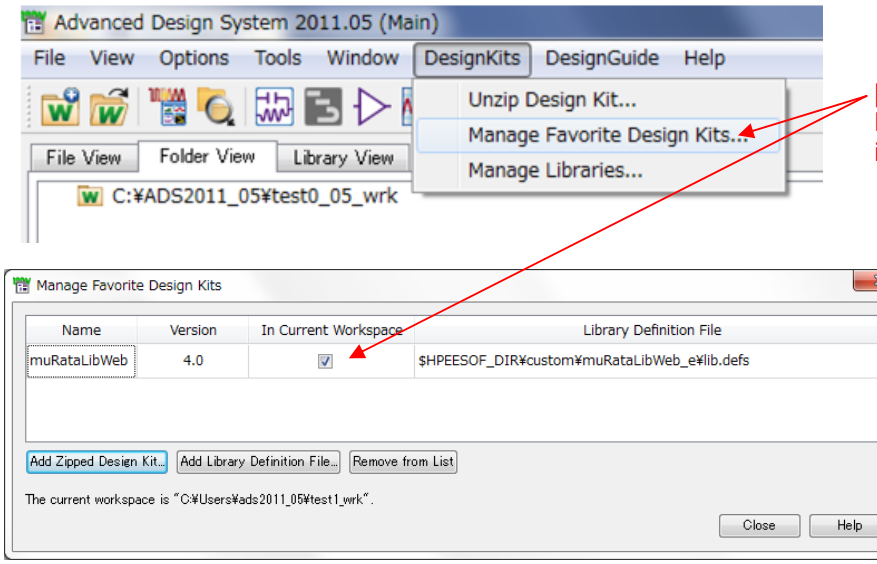


[5] Check that the “muRataLibWeb_e” folder has been created in the folder containing the unzipped library.

This completes the installation.

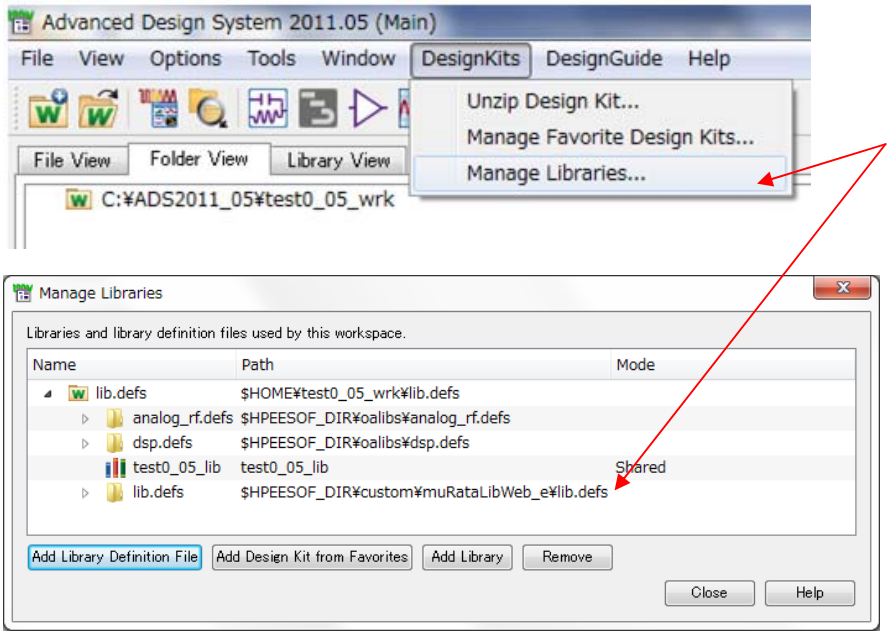
<Supplementary information: Confirmation of installation completion>
[1] If you installed before creating the workspace (1), create a new workspace.
(Perform the same procedure if the existing workspace is open.)

[2] Select “DesignKits” → “Manage Favorite Design Kits…” in the main window. The “Manage Favorite Design Kits” window appears and the “In Current Workspace” item in the “muRataLibWeb” line is checked.


Advanced Design System 2011.05 (Main)
File View Options Tools Window DesignKits DesignGuide Help
Unzip Design Kit...
Manage Favorite Design Kits...
Manage Libraries...
File View Folder View Library View
C:¥ADS2011_05¥test0_05_wrk
Manage Favorite Design Kits
Name Version In Current Workspace Library Definition File
muRataLibWeb 4.0 $HPEESOF_DIR¥custom¥muRataLibWeb_e¥lib.defs
Add Zipped Design Kit... Add Library Definition File... Remove from List
The current workspace is "C:¥Users¥ads2011_05¥test1_wrk".
Close Help

[2] When the “Manage Favorite Design Kits” window is displayed, this checkbox is selected.

[3] Select “DesignKits” → “Manage Libraries…” in the main window. The “Manage Libraries” window appears and the library path is added.

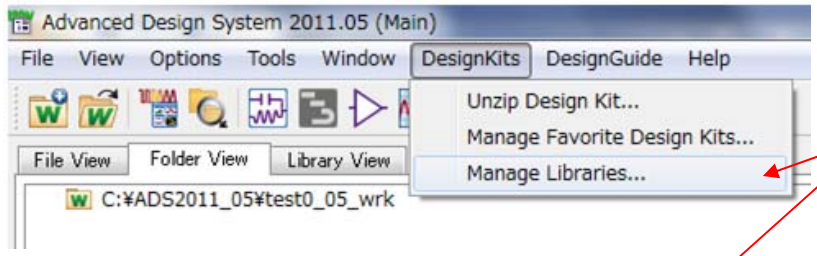

Advanced Design System 2011.05 (Main)
File View Options Tools Window DesignKits DesignGuide Help
Unzip Design Kit...
Manage Favorite Design Kits...
Manage Libraries...
File View Folder View Library View
C:¥ADS2011_05¥test0_05_wrk
Manage Libraries
Libraries and library definition files used by this workspace.
Name Path Mode
lib.defs $HOME¥test0_05_wrk¥lib.defs
analog_rf.defs $HPEESOF_DIR¥oalibs¥analog_rf.defs
dsp.defs $HPEESOF_DIR¥oalibs¥dsp.defs
test0_05_lib test0_05_lib Shared
lib.defs $HPEESOF_DIR¥custom¥muRataLibWeb_e¥lib.defs
Add Library Definition File Add Design Kit from Favorites Add Library Remove
Close Help

[3] When the “Manage Libraries” window is displayed, the library path has been added.

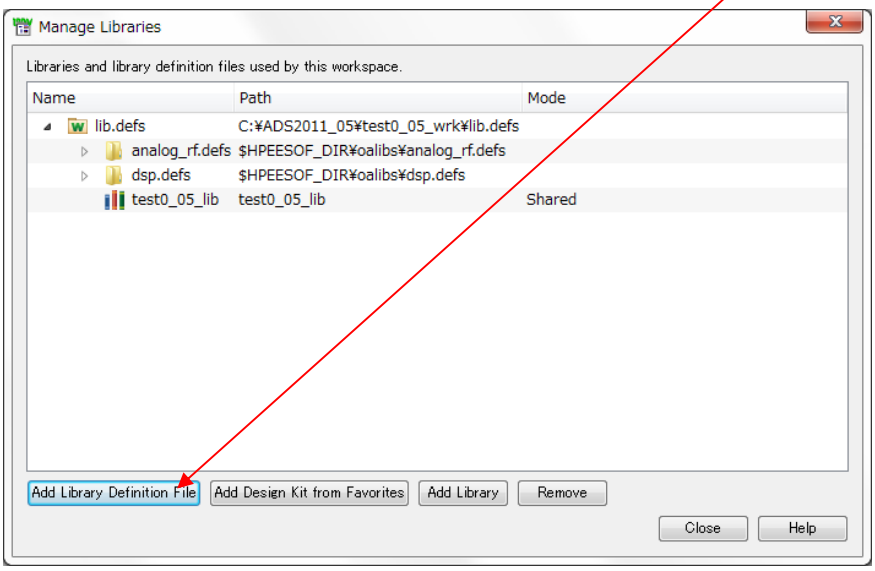
[Procedures for Installing in an Existing Workspace]
First, open an existing workspace. Two installation procedures are described below.

（1）
[1] Unzip the downloaded library (murata_library_ads2011_**e.zip) and place the created folder “muRataLibWeb_e” into your desired folder (example: C:¥Agilent¥ADS2011_05¥custom).

[2] Select “DesignKits” → “Manage Libraries…” in the main window. The “Manage Libraries” window appears.
Click “Add Library Definition File”.

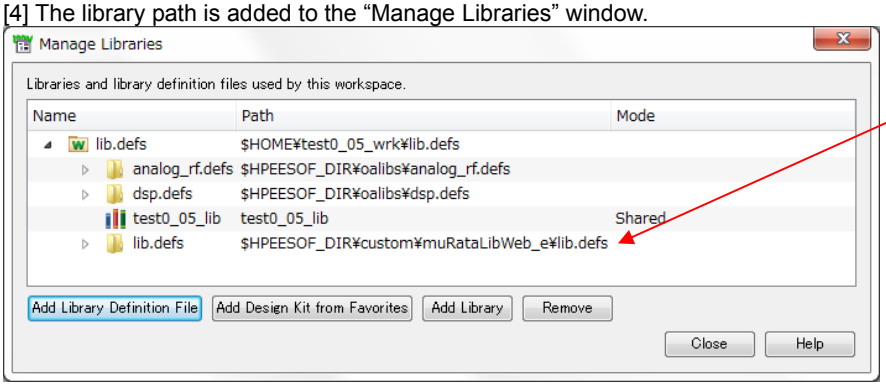


[2] Display the “Manage Libraries” window and click “Add Library Definition File”.



[3] Select the “lib.defs” file in the “muRataLibWeb_e” folder.

[4] The library path is added to the “Manage Libraries” window.



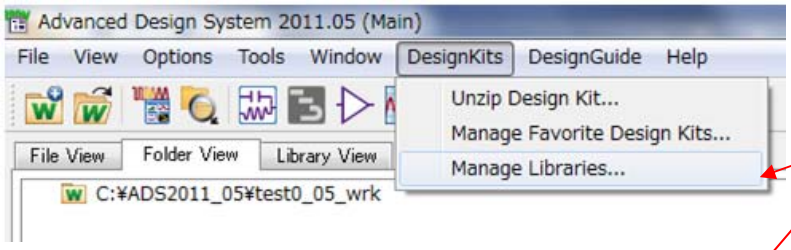
[4] The library path is added to the “Manage Libraries” window.

This completes the installation.

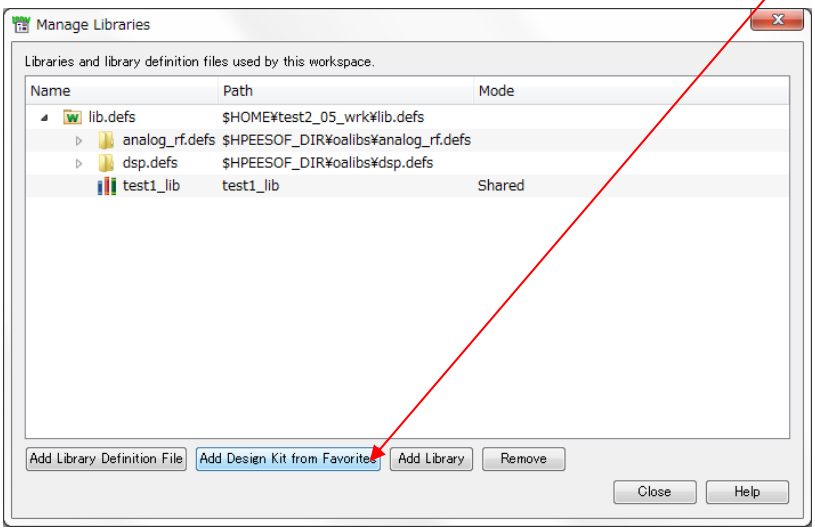
（2）

[1] Unzip the downloaded library (murata_library_ads2011_**e.zip) and place the created folder “muRataLibWeb_e” into your desired folder (example: C:¥Agilent¥ADS2011_05¥custom).

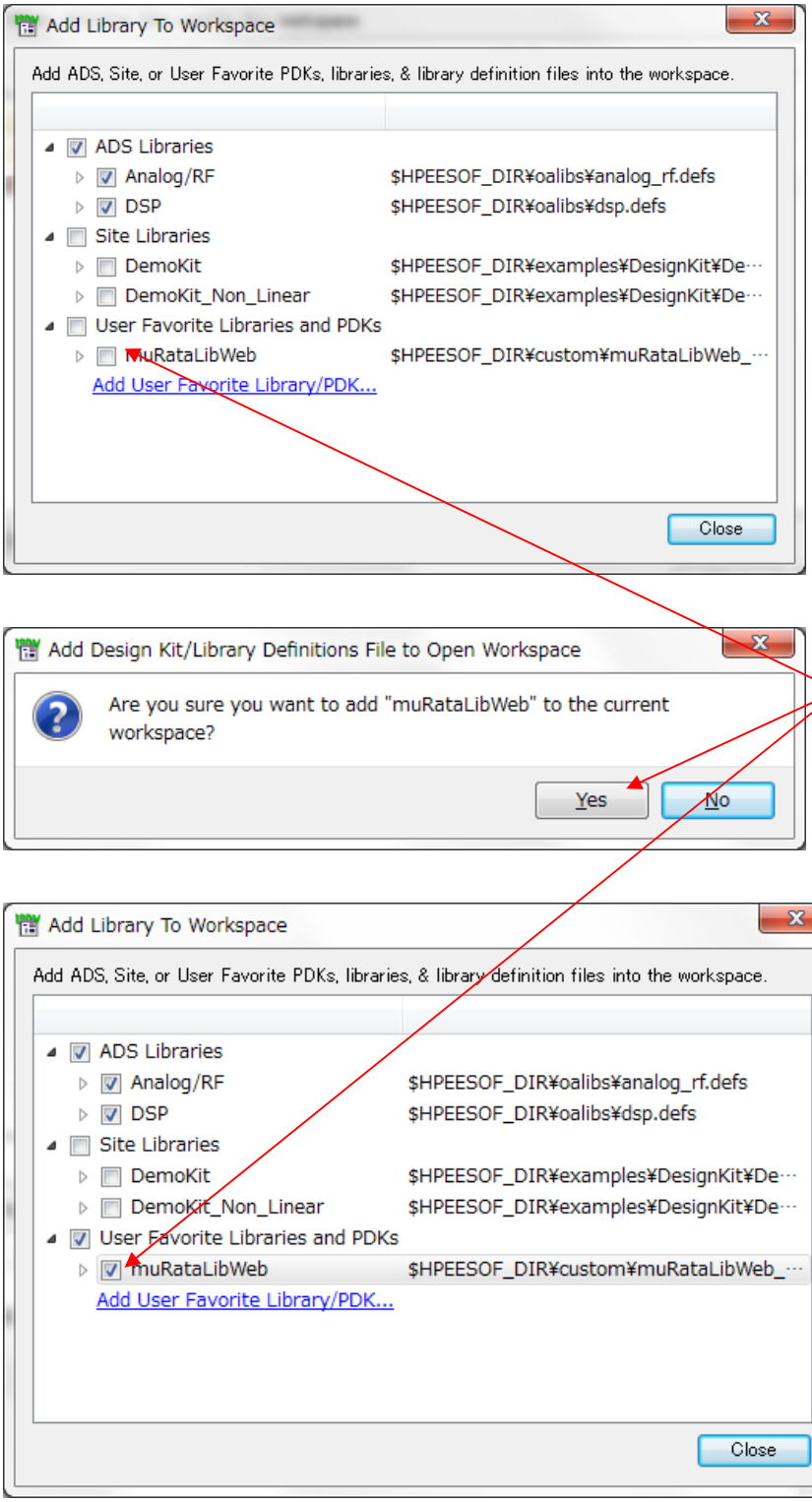
[2] Select “DesignKits” → “Manage Libraries…” in the main window. The “Manage Libraries” window appears.
Click “Add Library Definition File”.



[2] Display the “Manage Libraries” window and click “Add Design Kit from Favorites”.



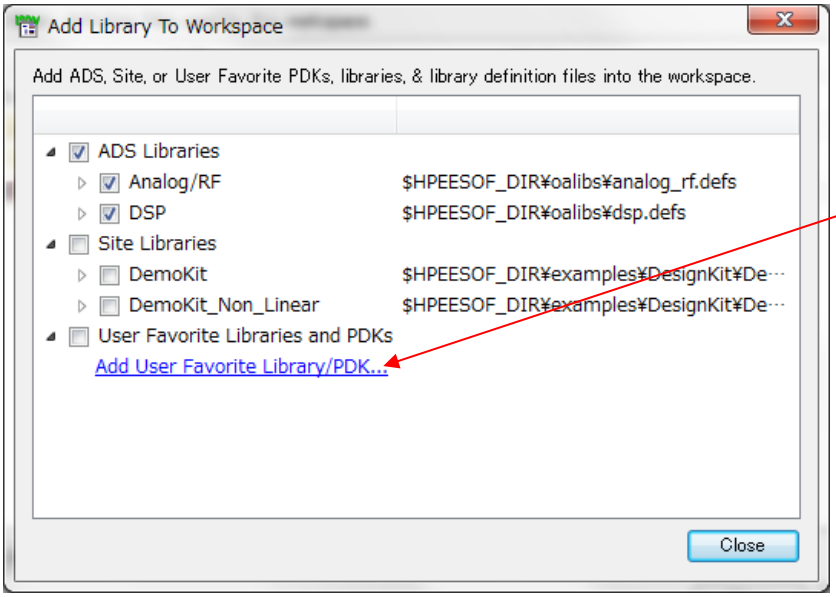
[3] If there is a library you want to install in the displayed window, select the corresponding checkbox (if not, go to [4]). The confirmation screen appears. Click “Yes”.



[3] Select the checkbox of the library you want to install. The confirmation screen appears. Click “Yes” to confirm the checkbox selection.

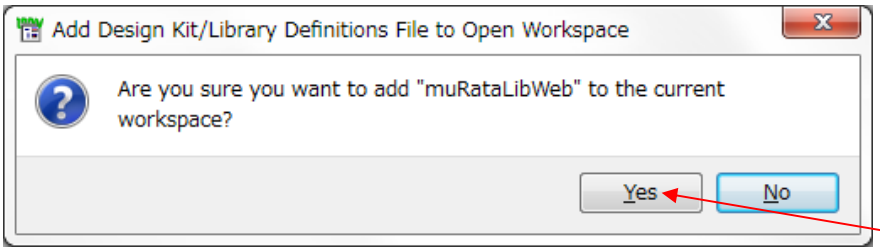
This completes the installation.

[4] If you cannot find the library you want to install in the screen of [3] above, click “Add User Favorite Library/PDK…” in the same screen.

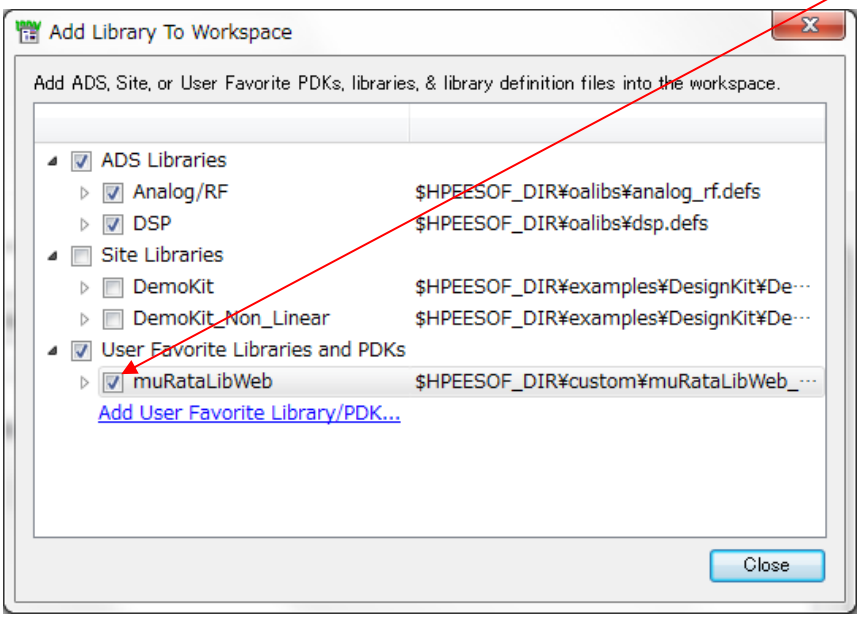


[4] Click “Add User Favorite Library/PDK…”.

[5] Select the “lib.defs” file in the “muRataLibWeb_e” folder. The confirmation screen appears. Click “Yes”.


Add Design Kit/Library Definitions File to Open Workspace
Are you sure you want to add "muRataLibWeb" to the current workspace?
Yes
No

[5] When “lib.defs” is selected, the confirmation screen appears. Click “Yes”. This selects the checkbox.



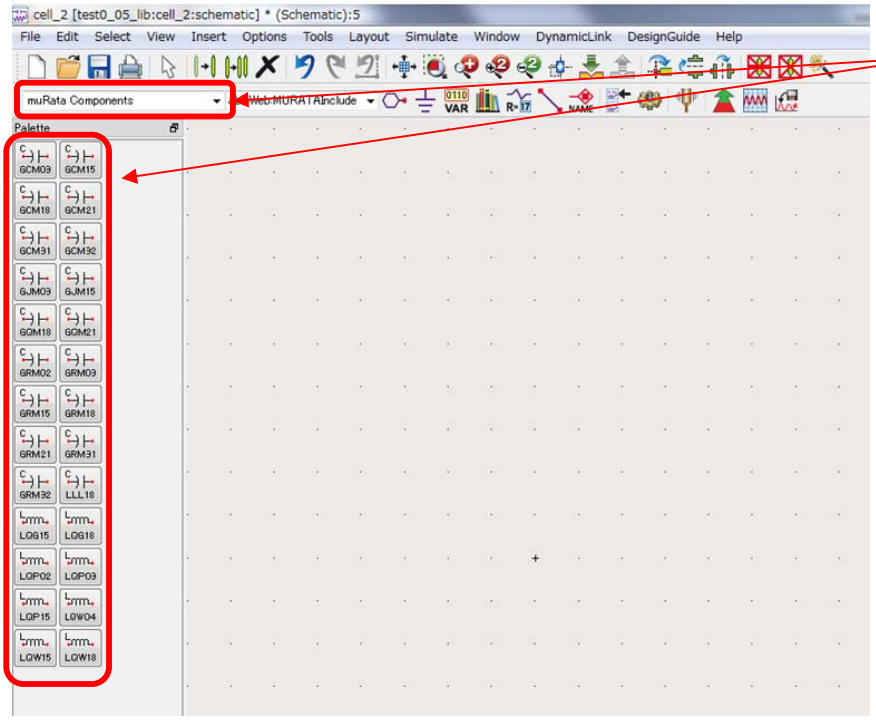
This completes the installation.

4. Using the Library

This section describes how to place the components required for using the Murata library, including “NETLIST INCLUDE”, on the schematic window, and how to select products within the components.

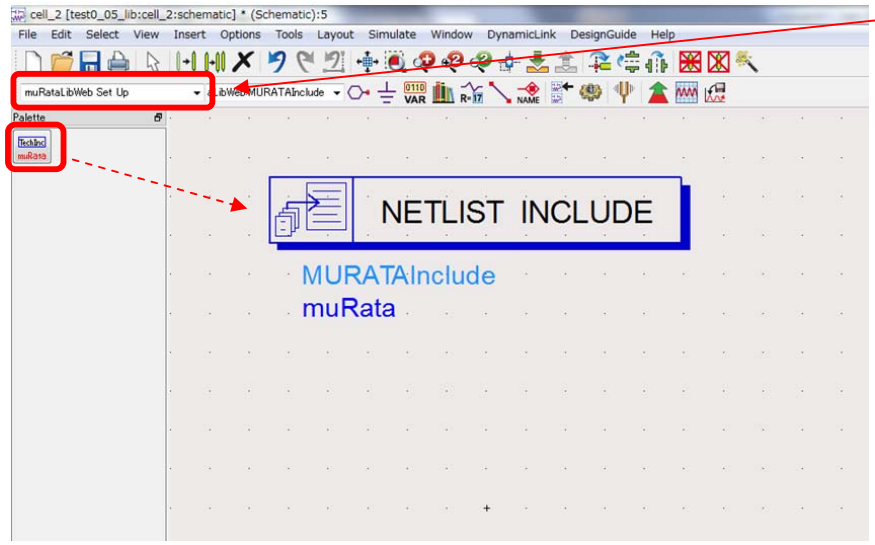
[Component Placement]

[1] In the schematic window displayed immediately after startup, the Murata product palette is displayed in the Palette list on the left side.


cell_2 [test0_05_lib:cell_2:schematic] * (Schematic):5
File Edit Select View Insert Options Tools Layout Simulate Window DynamicLink DesignGuide Help
muRata Components
Palette

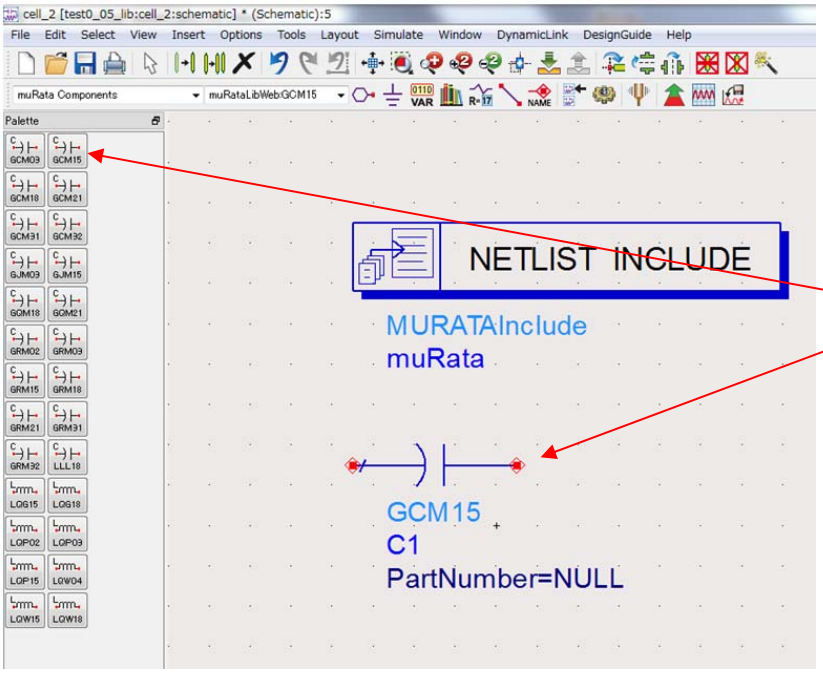
[1] The Murata product palette list is displayed as default.

[2] Change the palette list from “muRata Components” to “muRataLibWeb Set Up”. After clicking the displayed palette, move the cursor onto the schematic window and click again to place the “NETLIST INCLUDE” component.



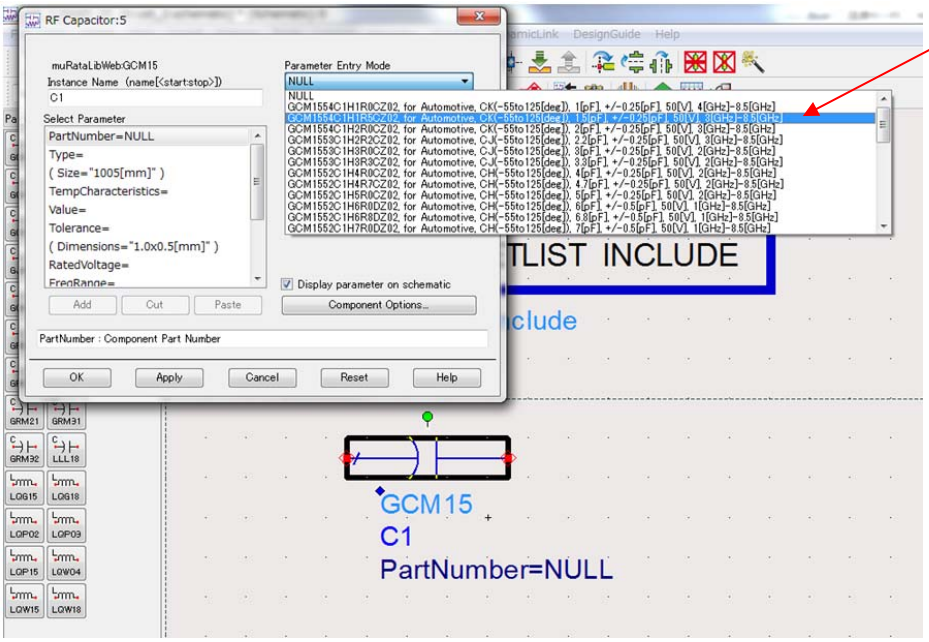
[2] Change the palette list and click the palette to place the “NETLIST INCLUDE” component.

[3] Return the palette list from “muRataLibWeb Set Up” to “muRata Components”. Using the same procedure as [2], click your desired palette, and then move the cursor onto the schematic window and click again to place the component (the operation mode continues even after placement, but this can be stopped by pressing the ESC key).



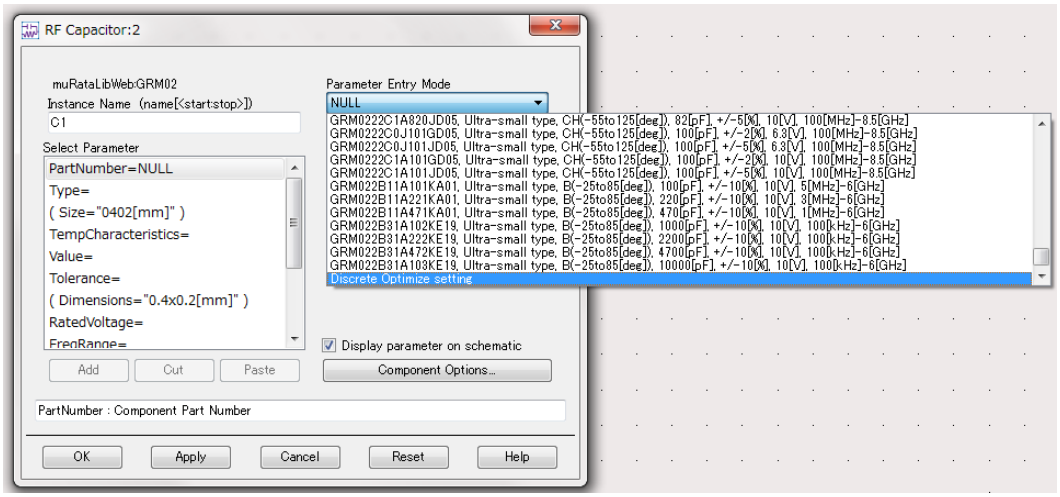
[Product Selection]

Double-click a component to display the settings window. You can select products from the part number list of “Parameter Entry Mode” in the top right of this window.

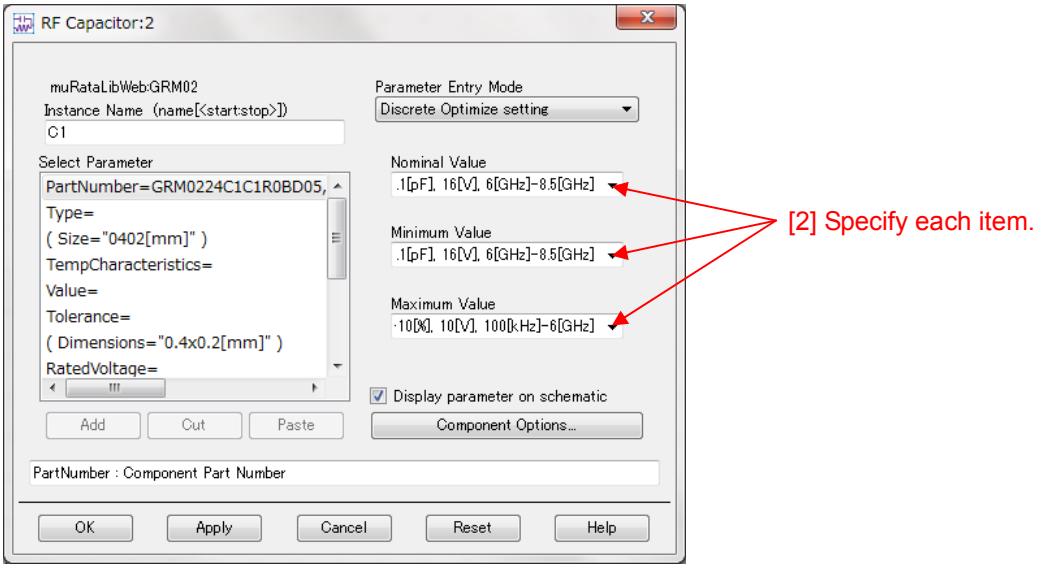


[“Discrete Optimize setting” Function]

[1] Double-click a component to display the settings window. Select “Discrete Optimize setting” at the bottom of the part number list of “Parameter Entry Mode” in the top right of this window.



[2] The “Nominal Value”, “Minimum Value” and “Maximum Value” items are displayed. By specifying each of these items, you can use the “Discrete Optimize setting” function.



5. Request

[Converting from a Project to a Workspace]

■Symptom

When a project created with the ADS2009U1 version or earlier ("PJT") is converted to an ADS2011 workspace ("WS"), even though the PDK is installed correctly, some of the components are not displayed, or there is an unknown part number on the schematic with null displayed as the part number.

■Cause

This occurs because part numbers that existed in the PDK that supported ADS2009U1 and earlier versions have been discontinued in the PDK for ADS2011. It is caused at the moment of conversion from PJT to WS when components are lost, or when a part number cannot be found and is returned to the default.

■Request

In PJT-WS conversion using ADS 2011.01, the unknown part numbers described above cannot be displayed on the schematic, but ADS 2011.05 includes enhancements that enable display. Please upgrade to this enhanced version before contacting Murata about issues such as successor part numbers (*). We apologize for any inconvenience and ask for your kind cooperation.

* To contact us, please use Contact Form for Design Support Tools.